



KSD-800



Industrial 8-Port Fast Ethernet Switches with Fiber Connectivity

Panel Mounting Bracket



Benefits :

- Fast Ethernet switch with 8 10/100Mbps copper ports and optional fiber ports
- Wide operating temperature range for temperature critical environment
- Support DIN rail mounting and panel mounting
- Provide two power input types to meet more application needs
- Accept wide power input voltage range for application flexibility
- Industrial-rated Emission and Immunity performance

Key Features :

- 8 10/100M ports support auto-negotiation and auto-MDI/MDI-X configuration
- Port 7 and Port 8 provide either copper or fiber connection (model dependent)
- Provides wire speed store-and-forward switching
- Supports IEEE 802.3x flow control for full-duplex operation
- Supports Back-pressure flow control for half-duplex operation
- Provides Far End Fault function on the fiber ports

Specifications :

Standard	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, 100Base-FX
Network Ports	8 RJ-45 10/100Mbps auto-negotiation, auto-MDI/MDI-X ports 2 100Mbps 100Base-FX ports (model dependent) (Port 7 and Port 8 provide dual connectivities, either copper or fiber.)
Network Cables	10Base-T : Cat. 3, 4, 5 or higher up to 100m 100Base-TX : Cat. 5 or higher up to 100m 100Base-FX : MMF 50/125μm 60/125μm, SMF 9/125μm
MAC Addresses	Table with 1K entries
LEDs	Per unit : Power, Management Per 10/100M port : Link/Activity, 100M, Duplex/Collision status Per fiber port slot : Link/Activity status status
Relay Output	Alarm : Power failure Interface : 2 terminal contacts Spec. : 30VDC/1A max. or 120VAC/0.5A max.
DC Power Input	Screwed terminator block : 2 pairs of +/- contacts DC jack : -D 6.3mm / + D 2.0mm Operating voltage range : +7 - +30VDC
Power Consumption	7.3 watts (max.)
Housing	Enclosed metal with no fan
Dimension	140 x 106 x 40 mm (WxDxH)
Mounting Support	DIN Rail mounting, Panel mounting



EMI EMS Safety Environmental Tests:

Test	Standard	Specifications
FCC/EMI	FCC Rule Part 15	Class A
CE/EMC/EMI	EN55022, CISPR 22	Class A
CE/EMC/Harmonic	EN 61000-3-2	< 75 W
CE/EMC/VFF	EN 61000-3-3	Clause 5
CE/EMC/EMS	EN 55024	
ESD Test	IEC 61000-4-2	Contact: +/-8KV Air: +/-16KV
RS Test	IEC 61000-4-3	Strength: 10V/m
EFT/BURST	IEC 61000-4-4	+/-4KV
Surge Immunity	IEC 61000-4-5	Power: 4KV Signal: 0.5KV
CS Test	IEC 61000-4-6	Level 3
Magnetic Field Imm.	IEC 61000-4-8	50Hz 40A/m
Voltage Dips Imm.	IEC 61000-4-11	Interruption : C Dips : B
Safety	EN 60950, IEC 60950	
Dielectric Voltage	IEEE 802.3	TP, 1500VAC/60sec.
Insulation Resistance	IEEE 802.3	TP, 500VDC/10Mohm
Cold Test	IEC 68-2-1 Test Ad	-20°C, 96hrs
Dry Heat Test	IEC 68-2-2 Test Bd	+70°C 40%RH 96hrs
Damp Heat Test	IEC 68-2-3	+60°C 90%RH 96hrs
Storage Test	IEC 68-2-48	-20°C 96hrs +85°C 40%RH 96hrs
Vibration Test	IEC 68-2-34	

Ordering Information :

Model KSD-800-xxx	FX Ports	Ref. Distance	Operating Temperature
-1T	FX8 ST MMF	2km	-10 ~ 70°C
-1C	FX8 SC MMF	2km	-10 ~ 70°C
-1C1	FX8 SC MMF	2km	-20 ~ 70°C
-1SA2	FX8 SC SMF	20km	-20 ~ 70°C
-1SL2	FX8 SC SMF	20km	-20 ~ 70°C
-2T	FX7 ST MMF FX8 ST MMF	2km 2km	-10 ~ 70°C
-2C	FX7 SC MMF FX8 SC MMF	2km 2km	-10 ~ 70°C
-2C1	FX7 SC MMF FX8 SC MMF	2km 2km	-20 ~ 70°C
-2SA2	FX7 SC SMF FX8 SC SMF	20km 20km	-20 ~ 70°C
-2SL2	FX7 SC SMF FX8 SC SMF	20km 20km	-20 ~ 70°C
-C1SL2	FX7 SC MMF FX8 SC SMF	2km 20km	-20 ~ 70°C



FCC Part 15, Class A
CISPR 22 Class A

Katron Technologies Inc.

15F-7, No. 79, Sec. 1, Hsin Tai Wu Rd.,
Hsi-chih, Taipei Hsien, Taiwan.
Tel: 886-2-2698-3878
Fax: 886-2-2698-3873
E-mail: kti@ktinet.com.tw
URL: http://www.ktinet.com.tw

KTI Networks Inc.

7400 Harwin Dr., Suite 120 Houston,
Texas 77036 U.S.A.
Tel: 713-266-3891
Fax: 713-914-0555
E-mail: kti@ktinet.com
URL: http://www.ktinet.com

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Environment

Operating temperature : -20°C ~ 70°C
Storage temperature : -20°C ~ 85°C
Relative Humidity : 5% ~ 95% non-condensing

Approval

FCC Class A
CE/EMC Class A, EN60950 safety

Fiber Optical Specification :

Model	FX & Cable	Wavelength	Tx Power	Rx Sensitivity	Rx Max. Power
-1T	FX8 :ST MMF	1310nm	-19 ~ -14 dBm	-31 dBm	-14 dBm
-1C	FX8 :SC MMF	1310nm	-19 ~ -14 dBm	-31 dBm	-14 dBm
-1C1	FX8 :SC MMF	1310nm	-20 ~ -14 dBm	-31 dBm	0 dBm
-1SA2	FX8 :SC SMF	1310nm	-15 ~ -8 dBm	-31 dBm	-7 dBm
-1SL2	FX8 :SC SMF	1310nm	-15 ~ -8 dBm	-30 dBm	-7 dBm
-2T	FX7 :ST MMF FX8 :ST MMF	1310nm 1310nm	-19 ~ -14 dBm -19 ~ -14 dBm	-31 dBm -31 dBm	-14 dBm -14 dBm
-2C	FX7 :SC MMF FX8 :SC MMF	1310nm 1310nm	-19 ~ -14 dBm -19 ~ -14 dBm	-31 dBm -31 dBm	-14 dBm -14 dBm
-2C1	FX7 :SC MMF FX8 :SC MMF	1310nm 1310nm	-20 ~ -14 dBm -20 ~ -14 dBm	-31 dBm -31 dBm	0 dBm 0 dBm
-2SA2	FX7 :SC SMF FX8 :SC SMF	1310nm 1310nm	-15 ~ -8 dBm -15 ~ -8 dBm	-31 dBm -31 dBm	-7 dBm -7 dBm
-2SL2	FX7 :SC SMF FX8 :SC SMF	1310nm 1310nm	-15 ~ -8 dBm -15 ~ -8 dBm	-30 dBm -30 dBm	-7 dBm -7 dBm
-C1SL2	FX7 :SC MMF FX8 :SC SMF	1310nm 1310nm	-20 ~ -14 dBm -15 ~ -8 dBm	-31 dBm -30 dBm	0 dBm -7 dBm

